AMENDMENTS TO THE SPECIFICATION:

Please amend Paragraph [0083] bridging pages 35 and 36, as follows:

[0083] Especially, the microwave oscillating portion forms the resonant circuit of the microwaves between the detection object at the detection area being the electromagnetic wave radiation space and the electrically conductive member. Then, the electromagnetic wave radiation space can be deemed as the resonant circuit of the electric field intensity (magnetic field) between the antennas. The mutual influence of the electric field and the magnetic field of the electromagnetic waves becomes larger, so that it is hard to be affected by the electrostatic capacity of the detection object of the detection area. Consequently, the detection accuracy improves. Moreover, since the microwaves of the working frequency of ~~300NHz~~ 300MHz to 300GHz are used, it is possible to realize the detection that is not affected by the atmosphere such as the humidity, temperature, moisture, pressure or the like of the detection area in comparison with the conventional type of the electrostatic capacity sensing system. Consequently, the system becomes low price. Therefore, the proximity sensor according to the present invention is easy to detect the near distance and enables detection at close range. Moreover, the proximity sensor can detect the state while being manufactured at low costs. Furthermore, in contrast to the Doppler detection, the proximity sensor enables the detection even if the detection object at the diction area does not move.